

What is claimed is:

1. An apparatus for capturing an image, comprising:

a scene-referred raw data generating section to generate scene-referred raw data, which directly represent said image while depending on image-capturing characteristics of said apparatus;

a reproduction-auxiliary data generating section to generate reproduction-auxiliary data, based on which an image-capturing characteristic compensation processing is to be applied to said scene-referred raw data generated by said scene-referred raw data generating section, so as to generate scene-referred image data in a standardized format from said scene-referred raw data; and

a storage controlling section to attach said reproduction-auxiliary data to said scene-referred raw data in order to store both of them into a storage medium.

2. The apparatus of claim 1, further comprising:

an image-capturing data generating section to generate image-capturing data, which represent image-capturing conditions established at a time of capturing said image;

wherein said storage controlling section attaches both said reproduction-auxiliary data and said image-capturing data to said scene-referred raw data in order to store all of them into said storage medium.

3. An apparatus for processing data, comprising:

a receiving section to receive scene-referred raw data, which directly represent an image captured by an image-capturing apparatus while depending on image-capturing characteristics of said image-capturing apparatus, and to receive reproduction-auxiliary data in respect to said scene-referred raw data; and

a scene-referred image data generating section to generate scene-referred image data from said scene-referred raw data received by said receiving section, based on said reproduction-auxiliary data received by said receiving section, by applying an image-capturing characteristic compensation processing to said scene-referred raw data.

4. The apparatus of claim 3,

wherein said scene-referred image data are generated in a standardized format from said scene-referred raw data.

5. The apparatus of claim 3,

wherein said receiving section also receives image-capturing data, which represent image-capturing conditions established at a time of capturing said image.

6. The apparatus of claim 4, further comprising:

an output-referred image data generating section to generate output-referred image data, based on which a reproduced image is formed on an outputting medium, by applying an image-processing for optimizing said reproduced image to said scene-referred image data generated by said scene-referred image data generating section.

7. The apparatus of claim 5, further comprising:

an output-referred image data generating section to generate output-referred image data, based on which a reproduced image is formed on an outputting medium, by applying an image-processing for optimizing said reproduced image to said scene-referred image data generated by said scene-referred image data generating section;

wherein contents of said image-processing are determined on the basis of said image-capturing data received by said receiving section.

8. An apparatus for outputting a reproduced image onto an outputting medium, comprising:

a receiving section to receive scene-referred raw data, which directly represent an image captured by an image-capturing apparatus while depending on image-capturing characteristics of said image-capturing apparatus, and to receive reproduction-auxiliary data in respect to said scene-referred raw data;

a scene-referred image data generating section to generate scene-referred image data from said scene-referred raw data received by said receiving section, based on said reproduction-auxiliary data received by said receiving section, by applying an image-capturing characteristic compensation processing to said scene-referred raw data;

an output-referred image data generating section to generate output-referred image data, based on which a reproduced image is formed on an outputting medium, by applying an image-processing for optimizing said reproduced image to said scene-referred image data generated by said scene-referred image data generating section; and

an image-forming section to form said reproduced image on said outputting medium, based on said output-referred image data.

9. The apparatus of claim 8,

wherein said receiving section also receives image-capturing data, which represent image-capturing conditions established at a time of capturing said image; and

wherein contents of said image-processing are determined on the basis of said image-capturing data received by said receiving section.

10. A method for processing data, comprising the steps of:

receiving scene-referred raw data, which directly represent an image captured by an image-capturing apparatus while depending on image-capturing characteristics of said image-capturing apparatus, and reproduction-auxiliary data in respect to said scene-referred raw data; and

applying an image-capturing characteristic compensation processing to said scene-referred raw data, based on said reproduction-auxiliary data received in said receiving step, in order to generate scene-referred image data from said scene-referred raw data.

11. The method of claim 10,

wherein said scene-referred image data are generated in a standardized format from said scene-referred raw data.

12. The method of claim 11,

wherein said reproduction-auxiliary data serve as image-capturing characteristic compensation data, which are employed for converting said scene-referred raw data into said scene-referred image data in a standardized color space.

13. The method of claim 11,

wherein, in said receiving step, image-capturing data, which represent image-capturing conditions established at a time of capturing said image, are also received.

14. The method of claim 11, further comprising the step of:

generating output-referred image data, based on which a reproduced image is formed on an outputting medium, by applying an image-processing for optimizing said reproduced image to said scene-referred image data generated in said applying step.

15. The method of claim 13, further comprising the step of:

generating output-referred image data, based on which a reproduced image is formed on an outputting medium, by applying an image-processing for optimizing said reproduced image to said scene-referred image data generated in said applying step;

wherein contents of said image-processing are determined on the basis of said image-capturing data received in said receiving step.